

NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

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FROM THE DIRECTOR'S OFFICE

C. Bruce Tarter

Introducing Integrated Safeguards and Security

Great science and security can and must work together to effectively carry out LLNL's mission. Security issues touch upon almost every aspect of our work including proper protection of classified material, information and computer networks, proprietary and sensitive data, and export control items. Our scientific and technical vision depends upon each employee's commitment to excellence in protecting our varied vital assets.

Gen. John Gordon, administrator of the National Nuclear Security Administration, said as much when calling for a blending of science and security during his recent visit here for Science Day. He was not suggesting a balance between science and security, but a blending of the two. Both issues must operate at optimum levels. Balance would imply a compromise on both sides, thus hindering both sides.

To accomplish this, Gen. Gordon called for the implementation of an Integrated Safeguards and Security Management (ISSM) approach to security management within the complex. His goal is to effectively integrate safeguards and security into management and work practices at all levels so missions are accomplished securely.

The Office of the University President, LANL Director John Browne, and I have committed to successfully implement an ISSM system. ISSM is now a specific performance measure in the new management contract between DOE and the University. Two years have been scheduled for the ISSM development and implementation process.

Prior to announcing ISSM, Gen. Gordon called for a six-month moratorium on the implementation of new safeguards and security policy. This will allow time to review past policies, identify improvements and determine the best approach to effectively implement ISSM.

To introduce you to ISSM, a Laboratory booklet will be distributed at the end of this month. The booklet will provide more detail on ISSM includ-

See ISSM, page 8

Fusion of lab efforts on W80 work

By Don Johnston

NEWSLINE STAFF WRITER

Los Alamos, Lawrence Livermore and Sandia national laboratories will "utilize the full breadth" of their assets to meet stewardship requirements for the W80 warhead, under terms of an agreement approved by the National Nuclear Security Administration.

The agreement, signed in early January, aims "to accomplish a more balanced workload at the nuclear laboratories and tend to the current needs of the national stockpile." Los Alamos and Sandia will continue to have sole responsibility for assuring and certifying the safety, reliability and performance of the W80 Mods 0 and 1. The W80 Mod 0 is a warhead for the Navy's Tomahawk cruise missile and Mod 1 is carried by the Air Force's air-launched cruise missiles.

The W80 Life Extension Program to refurbish these warheads is now assigned to Livermore and Sandia laboratories, which will be responsible for the modified design. These laboratories will be responsible for assuring the safety, reliability and performance of the refurbished W80 warheads, Mods 2 and 3, as well as any potential future mods — Mod 2 will be the refurbished Navy warhead and Mod 3 the Air Force version. The Mod 2/3 design approach is based on the refurbishment option approved for development by the Nuclear Weapons Council at the conclusion of the Phase 6.2/6.2A study completed last fall.

The Nuclear Weapons Council is a high level DoD/DOE group responsible for a wide range of actions related to management of the nuclear weapons

See W80, page 8

Sen. Thompson visits Lab



MARCIA JOHNSON/TID

Tennessee Sen. Fred Thompson (second from right) met with AD George Miller, Director Bruce Tarter and Executive Officer Ron Cochran Wednesday to discuss the Lab's national security missions. Thompson also toured Lab facilities such as ASCI and the NIF construction site.

Lab names 2001 Teller Fellowship recipients

By Don Johnston

NEWSLINE STAFF WRITER

Pioneering advances in astronomy, environmental remediation, human genomics and physics critical to stockpile stewardship earned four Laboratory scientists Edward Teller Fellowships for 2001.

With Director Emeritus Edward Teller looking on, Claire Max of Physics and Advanced Technologies (PAT), Elbert Branscomb, Biology and Biotechnology Research Program, John Nitao, Energy and Environment and George Kwei, also of PAT, were officially named Edward Teller Fellows



DON GONZALEZ/TID

Bruce Tarter, Jeff Wadsworth, George Kwei, Elbert Branscomb, John Nitao, Claire Max and Edward Teller (clockwise from left) celebrated the Teller Fellowships.

See TELLER, page 7



Blue ribbon honors
for 'green' work

— Page 5



Expo brings out
friends of the Earth

— Page 5



Lab store closing shop
— Page 4

Channeling a degree
— Insert



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday
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The latest version of "What's In Store," the Employee Store's monthly bulletin, is now on-line. Check out the April "sale issue" by going to the LLESA Web page <http://llesal.llnl.gov/> and click on the artist's paint palette marked "What's In Store."

Saturday
21

There will be a **scheduled power outage** from 7 a.m. to 3:30 p.m. in the following locations on Saturday: Bldgs. 162, 164, 165, 166, 169 and 175; Trailers: 1601, 1602, 1631 and 1678; and in these locations on Sunday: Bldgs. 110, 111, 211, 212, 214, 216, 217, 218, 317 and 318; and Trailers: 2127, 2128, 2177 and 2180. Contact: Mark Cardoza, 3-0490.

...

The **Pippin Pocket Opera**, the acclaimed "miniature opera" company from San Francisco, will perform at 8 p.m. in Livermore. The evening will include a triple feature: "Bastien and Bastienne," by Mozart, "The Wedding Roast," by Schubert, and "Alice in Opera Land," by Donald Pippin. The concert will be at First Presbyterian Church in Livermore. Tickets are \$10 for adults, \$7.50 for seniors/students, and free for youth through high school. Contact: Del Valle Fine Arts, 447-2752, or <http://www.delvallefinearts.org>.

Tuesday
24

David Wellman will present "**One Nation Under God or One Nation Under Qualified: Demythifying Diversity**" at 10:30 a.m. in the Bldg. 123 auditorium. The talk is part of the Lab's Facilitated Diversity Dialogue Series; all employees are invited. Breakout "dialogue" sessions will be held in various meeting rooms immediately following the presentation. The dialogue session will be held 11:30 a.m. to 1 p.m.; lunch will be served. Contact: Michele Cardenas, 3-2796.

...

Want better relationships? **Codependents Anonymous** (CoDA) meets every Tuesday at noon in Bldg. 571, room 2016. The only requirement for membership is a desire to have healthy and loving relationships. The group offers 12 steps to recovery from codependency. Contact: Mike, 3-4827, or Jane, 4-4689.

Friday
27

The **Amigos Unidos Employee Networking Group** will take preorders for tamales prior to their annual Cinco de Mayo Fiesta, which will be held Friday, May 4, 11:30 a.m. to 1 p.m. in the pool area. Employees may pre-order tamales through April 27. Pre-order prices are \$13/dozen, \$7/half-dozen (\$14/dozen, \$7.50/half-dozen on the day of the event). All proceeds go toward the Amigos Unidos Scholarship Fund. To place an order, call Yahel De La Cruz, 4-3507.

Tour of duty



MARCIA JOHNSON/TID

Larry Crouch, firing operations supervisor at HEAF, explains how the high explosives chambers work to participants in the Lab's annual ROTC Day, held Wednesday. The Lab's National Security Office and Science & Technology Education Program hosted 88 ROTC and JROTC cadets and midshipmen and their officers for the day, which also included tours of NIF, NARAC, the Conflict Simulation Lab and Nova, and talks on bioterrorism and Department of Defense technologies.

BRIEFLY

Attention all hybrid car owners

Do you own a hybrid car? Then Blair Barnett wants to hear from you.

Barnett is looking for owners of Toyota, Honda or some other form of hybrid car as part of an Earth Day project. If you have a hybrid car, contact him at 2-0875.

Intel science fair needs judges

The Intel International Science & Engineering Fair, which will be held in San Jose from May 6-12, is still looking for judges, particularly in the earth/space sciences, environmental science, math and all life sciences.

More than 1,200 student finalists from all 50

states and 42 countries will display their award winning projects and compete for over \$3 million in cash, prizes and scholarships. Patents have already been filed on 10-15 percent of the projects and the level of most projects is at graduate or near-graduate level.

Judges should have either a Ph.D, M.D. or about six years professional experience in the category they wish to judge (in place of the advanced degree). Judges are needed May 8 (one to two hours between 1-10 p.m., flexible) and May 9 (all day from 8 a.m. to about 8:30 p.m.). Meals and parking will be provided.

Applications are available online at www.intelisef2001.org/judges/index.html

IN MEMORIAM

Myron Clough

Myron B. Clough, a retired engineering associate, died April 4, in his Calistoga home. He was 86.

Clough was a senior engineering associate in the Materials Engineering Division, working in the high-pressure lab. He worked at the Lab for more than 22 years before retiring in 1977.

Clough was actively involved in Boy Scouts, serving as a scoutmaster for his sons and earning the rank of Eagle Scout as a youth. He also enjoyed golf, bridge, square dancing and bicycling.

Survivors include his wife of 62 years, Elaine; sons Jerry and David; and a daughter, Kathleen.

Memorial services will be held at a later date in Calistoga. Contributions in his memory may be sent to a charity of choice.

Richard Grover

Richard D Grover, a Lab retiree, died April 5 while visiting friends in Manteca. He was 51.

Grover worked as a rigger in Plant Engineering before retiring in February.

A native of Louisiana, Mo., he served 10 years

in the Army and was a Vietnam veteran. He was a Union Ironworker prior to moving to California in 1990. He lived in Manteca the last 10 years, moving back to his hometown when he retired.

Survivors include a daughter, Donna Rose, four brothers and three sisters.

A memorial service will be held April 28 at the 133 Club in Manteca.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

Contacts:

Managing editor: Lynda Seaver, 3-3103

Writers: Sheri Byrd, 2-2379; Don Johnston, 3-4902; Elizabeth Rajs, 4-5806

Designer: Julie Korhummel, 2-9709

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e-mail: newsline@llnl.gov or newsonline@llnl.gov

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AROUND THE LAB



Intelligence work needs entrepreneurial spirit

By Arnie Heller

TID

The greatest days of the nation’s intelligence community may well lie ahead, one of America’s top intelligence experts predicted last week.

However, achieving these new “glory days” will require a thorough overhaul of intelligence agencies and the way we think about intelligence and security, said Richard Haver, vice president and director for intelligence programs at TRW, during his Director’s Distinguished Lecture last Thursday.

Haver noted that during its first 50 years, the U.S. intelligence community, in partnership with American industry and research centers, invented extraordinary systems like the U-2 and SR-71 spy planes and the Corona imaging satellites. Haver urged a return to the entrepreneurial spirit that built things “that no one thought possible.”

Before joining TRW, Haver served as a civilian employee of the Department of Defense. His most recent assignment was chief of staff of the National Intelligence Council and special adviser



Richard Haver

strategic surprises like Pearl Harbor. Accomplishing that goal means penetrating other nations’ intelligence systems in what is inevitably a “dangerous, dirty game” that requires a high tolerance for failure.

The job of intelligence has become much harder in the past few years, he said, contrary to assumptions that the end of the Cold War and the breakup of the Soviet Union would make the job easier.

to the assistant director of Central Intelligence for analysis and production. He is well known in the intelligence community for provocative, “out of the box” thinking about intelligence issues.

Haver noted that the goal of intelligence is to prevent

Haver listed several reasons for the difficulties facing America’s intelligence community. First, the U.S. security system has become “broken and dysfunctional.” There are too many agencies with an intelligence mission, each with its own unique security rules. He also pointed to the enormous damage caused by FBI and CIA agents who have been arrested for working for Russian security services.

Second, while the U.S. intelligence community has been standing still, “the rest of the world has been gaining us.” Much of the technology the United States developed for intelligence purposes is being “thrown back in our face” by other nations. Examples include tunnel boring technology, encryption devices, and clandestine radios.

Noting that “technology is impossible to hold back,” he urged the U.S. intelligence community to become more aggressive in exploiting technology and developing more advanced systems.

Despite current problems, Haver asserted that the intelligence community can reinvent itself to achieve new levels of effectiveness and success. The resources and knowledge are there, he said. “What’s needed is national will.”

Diversity speaker takes on issues of ethnicity, race and culture

By Sheri Byrd

NEWSLINE STAFF WRITER

Kip Fulbeck provoked both laughter and questioning thought with his recent talk, “I Hope You Don’t My Asking, But...,” part of the Diversity Speaker Series, sponsored by the Affirmative Action & Diversity Program.

Fulbeck began his talk to the packed auditorium of Bldg. 123 by reading off a mock job application, in which the questions become more and more personal, and completely irrelevant, “Day or night? Chicken or fish? Mariah Carey or Celine Dion?”

Finally, he reached the question asking for ethnicity. “Check only one,” the job application told him, an impossible request for an American of mixed ethnic heritage such as Fulbeck, who’s father is of English, Welsh and Irish ancestry, and whose mother is originally from China.

He told of attempting to create his own box to check, or make one big check mark across all applicable answers.

“It’s pretty unbelievable,” he said, “that this was the first census where I could check more than one box.

“It’s also pretty unbelievable that at one time, my birth was illegal in 17 states,” Fulbeck said, referring to old laws forbidding interracial marriages.

Fulbeck is an associate professor of Art Studio and Asian American studies at UC Santa Barbara, and produces short films exploring multiracialism. His films have been shown and

acclaimed worldwide. His first novel, “Paper Bullets,” a fictionalized autobiography, has just been released.

Much of Fulbeck’s talk and films centered on his family.

“You have to understand the family I grew up in,” he explained, and told of his brother, the oncologist, and his brother-in-law, the astronaut.

“I started out in college as a psycho-biology major, pre-med, at UCLA,” he recalled. “Then I decided I wanted to exercise the other side of my brain,” and thus launched his art and teaching career.

Fulbeck spoke first of simple stereotyping he had encountered in his youth, “You’re good at math, right? Can I sit by you for the test?” and “Hey, show me some of that karate stuff.” His childhood role-model, he said, was Mr. Spock, the half-human, half-Vulcan character from the original “Star Trek” series.

From there, he launched into the first of three films shown during his talk, “A Day at the Fair,” a simple home video of an artist at the San Diego County fair. In a dialogue with Fulbeck, the artist points out his “Oriental” art and poetry of panda bears, inspired, he said, by some “Chinamen” he knew. Fulbeck used the real-life encounter to show examples of ethnic stereotyping and perceptions.

The next film, “Some Questions for 28 Kisses,” was the result of an experiment, and class responses from Fulbeck’s students.

“I decided to go into Blockbuster and find as many movies as I could, in 10 minutes, featuring white men with Asian women,” he said. “I found 28 movies in just 10 minutes. What does this say about

popular images of Asian masculinity?”

When Fulbeck brings up the subject of Asian women dating Caucasian men in his Asian-American studies classes, he said the classroom usually splits quickly into the men vs. the women. The men, he said, usually date outside their race far less than the women.

As the film began to roll, it featured clips from the 28 movies, with the sound removed. Superimposed on the clips were the text and jumbled voices of provocative questions from Fulbeck’s students regarding interracial relationships.

The final film of the day, titled, “L.A. Christmas,” featured a black and white home video of Fulbeck’s family gathered to celebrate Christmas, despite none of them claiming to be Christian. The film’s video track was matched with an audio track of Fulbeck and his mother commenting as the film played. “You need to find a nice lady,” the audience heard her say, among other comments.

“That’s how we say ‘I love you’ in my family,” he said. “I tell her I love her by joking around with her, and she tells me she loves me by telling me what to do with my life.”

Fulbeck concluded his talk by reading an answer from a classroom exercise given to a group of 10-year-olds.

“What’s the worst thing anyone could say to you?” he asked them. The answer he read contained words like oreo, zebra and other racial slurs. When asked, “What’s the best thing anyone could say to you?” the same student answered, “I respect both your parents’ cultures and I accept you the way you are.”

DDLs by Cisco VP on ‘The Internet: Changing How We Work, Live, Play and Learn’

“The Internet,” says Cisco Systems Senior Vice President Howard Charney, “is changing the way we work, live, play and learn.” Furthermore, he notes, it is “helping organizations of all types — from businesses to research and development organizations to entire nations — become more productive.”

During his DDLs presentation, Charney will outline four stages for obtaining productivity from the Internet. He’ll provide various examples of each stage and will talk about a host of exciting Internet technologies and Web-based applications, including Voiceover-IP, wireless networks, and unified messaging.

Charney’s presentation, “The Internet:

Changing How We Work, Live, Play and Learn,” takes place at 3:30 p.m. Wednesday, April 25, in the Bldg. 123 auditorium. All employees are invited.

As senior vice president at Cisco Systems, Charney is responsible for communicating Cisco’s strategy and vision and helping corporations and governments worldwide understand how the Internet can be used to build a competitive advantage in the new Internet economy.

He began his Cisco career in November 1995 as vice president and general manager of the Small Internetwork Business Unit (now the Desktop Switching Business Unit). Before joining Cisco, he was the founder, president and CEO of

Grand Junction Networks, the inventor of Fast Ethernet and low-cost switching. He was also a co-founder of 3Com Corporation, where he held a range of executive positions in manufacturing, engineering and legal from 1980 to 1990.

Charney earned his bachelor’s and master’s degrees in mechanical engineering from the Massachusetts Institute of Technology, and his MBA and J.D. from Santa Clara University. He is a member of the State Bar of California, the Federal Bar, and is a licensed patent attorney.

Director Bruce Tarter invites all employees to attend. The lecture will be broadcast on Lab Channel 2 Thursday, May 3, at 10 a.m., noon, 2, 4 and 8 p.m., and Friday, May 4, at 4 a.m.



NEWS YOU CAN USE

Employee Store getting new name, new location

The Employee Store is scaling back its operation. An inventory clearance sale will be held April 24-27 from 10 a.m. to 3 p.m., with most inventory sold at cost or below inventory prices.

The store will be closed April 30 and will reopen on May 1 under the name, "Time Zone." Services will include stamps, BART and Wheels tickets, discount tickets, greeting cards, LLNL logo attire and items, film processing, See's candy, UC's Apple Computer Higher Education Discount Program, PC/Apple software, and Apple warranty and repair service.

"LLESA offers the store as a service to the Lab and its employees," said LLESA Manager Ken Giannotti. "LLESA remains committed to providing services which save its members time and money."

In June, the store will move from its present location to a trailer located near Bldg. 415, said Giannotti.

"We were very much a high-tech store. Due to a significant decline in computer sales, the store has been losing money and cannot staff the number of people needed for operations in the current location," he said.

The Time Zone will be open Monday through Friday 11 a.m. to 3 p.m. Once it moves to its new location, next to Bldg. 415, the Time Zone will offer improved customer parking and support from LLESA's Administrative Office.

LLESA members are invited to suggest new time-saving services they would like to see offered at the Time Zone, Giannotti said.

INTERNAL TRANSFER OPPORTUNITIES

Tag	Requisition	Classification	Title	Organization
SO	2025	105.3	Senior administrator	Safety & Security
EP	1980	150.3	Principal resource analyst	Environmental Protection
NA	1533	196	Executive staff member	NAI
CH	2031	200	Deputy materials program leader	Chemistry & Materials Sciences
HC	1812	200	Chemist/physicist	Hazards Control
NA	1821	200	Scientist/engineer	NAI
PT	1747	221	Biochemist	Physics & Advanced Technologies
BS	1940	225	Biomedical scientist	Biology & Biotechnology Research
EP	1937	249	Process engineer	Environmental Protection
CH	2040	270	Physicist	Chemistry & Materials Science
DT	1988	270	Physicist	Defense & Nuclear Technologies
DT	1990	270	Physicist	Defense & Nuclear Technologies
CO	1727	285	Computer scientist	Computation
BS	1949	302.1	Scientific associate	Biology & Biotechnology Research
EE	1731	324.1	Computer programming associate	Electronics Engineering
EE	2065	325.1	Computer support associate	Electronics Engineering
ME	1744	390.1	Supervisor	Mechanical Engineering
EE	2016	405.3	Administrative specialist III	Electronics Engineering
HC	2015	405.3/4	Administrative specialist III/IV	Hazards Control
ME	1694	504.3	Senior technologist	Mechanical Engineering
PE	1992	805.2	Laborer II	Plant Engineering
PE	1993	805.2	Laborer II	Plant Engineering
PE	1994	823.1	Carpenter/roofer	Plant Engineering
PE	1996	852.1	Sheet metal worker	Plant Engineering

More information on these job postings as well as those at other UC sites and outside organizations is available through the World Wide Web. Go to the Lab's internal home page, click on "Services," then click on "Career Center." Once there, scroll down to "Information and Resources," where links to internal and external postings can be found.

Technical Meeting Calendar

Friday 20

H DIVISION
"Computational Investigation of Laser-Induced Processes in Organic Materials," by Leonid Zhigilei, University of Virginia, Charlottesville, Va. 10:30 a.m., Bldg. 319, room 205 (open area) Contacts: Lin Yang, 4-4153, and Donna Vercelli, 2-0976.

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"Star Formation Histories of Some Local Group Galaxies — What Do They Tell Us?" by Jon Holtzman, New Mexico State University. Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, 3-0621, or see <http://www.llnl.gov/urp/IGPP/SemCalendar/IGPPSemCal.html>

Monday 23

UC DAVIS, DEPARTMENT OF APPLIED SCIENCE
"Degradation in Organic Light Emitting Devices: A New Method of Observing Internal Parameters," by Vincent Dinh, Department of Applied Science, UC Davis. 4 p.m., Bldg. 661 (Hertz Hall), room 7 (open area). Refreshments served at 3:30 p.m. for a "meet the speaker" session before seminar and at 5 p.m. after the seminar. Contact: Estelle Miller, 2-9787.

CHEMISTRY & MATERIALS SCIENCE
"Heteroepitaxy: The Missing Link Between Surface Chemistry and Dry Corrosion," by Judith Yang, University of Pittsburgh, 10 a.m., Bldg. 235, Room 1090 (uncleared area). Contacts: Andrew Quong, 2-5641, or Linda Jones, 3-8839.

Wednesday 25

MATERIALS RESEARCH INSTITUTE
"Nanoengineering Optical Properties with Metal Nanoshells: New Materials and Applications," by Naomi Halas, Rice University. 3:30 p.m., Bldg. 219, room 163 (open area). Contact: Mike McElfresh, mcfresh1@llnl.gov, or Miriam Rinnert, rinnert1@llnl.gov.

Thursday 26

CHEMISTRY & MATERIALS SCIENCE
"Ion Tracks: Electronic Sputtering and Cratering," by Eduardo Bringa, University of Virginia. 1:30 p.m., Bldg. 235, room 1090. Contacts: Brian Wirth, 4-9822, or Linda Jones, 3-8839.

Friday 27

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"The Photographic Sky: Lessons Learned After the First 18 Tbytes," by Dave Monet, U.S. Naval Observatory (USNO). Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, 3-0621.

MATERIALS SCIENCE & TECHNOLOGY
"Ancient and Modern Laminated Composites," by Jeffrey Wadsworth, LLNL. 3:30 pm, in Bldg. 235, room 1090. Coffee and cookies will be served at 3:20 p.m. Foreign nationals may attend if an appropriate security plan is on file. Contact: Thomas E. Felter, 2-8012.

Monday 30

PHYSICS & ADVANCED TECHNOLOGIES
"Adaptive Optics Development: A 30-year Personal Perspective," by David L. Fried, AFRL/Phillips Research Site. 2:30 p.m., Bldg. 219. Room 163 (open area). Contact: Robin Sachau, 2-3457.

Friday 4

H DIVISION
"Femtosecond Structural Changes in Solids and Clusters," by Martin Garcia, Institute for Theoretical Physics, Freie Universit at Berlin, Germany. 10 a.m., Bldg. 319, room 205 (uncleared area). Contact: Giulia Galli, 3-4223, Darlene Klein, 4-4844.

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"The Internal Structure of the Sun and Helioseismology," by Joyce Guzik, Los Alamos National Laboratory. Noon, Bldg. 319, room 205. Contact: Joanna Allen, 3-0621, or see <http://www.llnl.gov/urp/IGPP/SemCalendar/IGPPSemCal.html>

Friday 11

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"Extrasolar Planet Candidates: A Review of the Evidence," by David C. Black, Universities Space Research Association. Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, 3-0621.

The deadline for the next Technical Meeting Calendar is noon, Wednesday, April 25.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the news-group llnl.meeting, contact the registrar at registrar@llnl.gov.

NEWS OF NOTE



EPA names Lab a ‘champion of green government’

By Don Johnston
NEWSLINE STAFF WRITER

The U.S. Environmental Protection Agency has recognized the Laboratory as a “champion of green government.”

Recycling materials from decontamination and demolition projects has earned the EPA’s Greening the Government Award — recognition and appreciation of individuals and groups that go “above and beyond the call of duty in working to improve the environment.”

At the heart of the effort is LLNL’s Space Action Team created six years ago in the Chemistry and Materials Science Directorate to improve efficiency and reduce costs by helping to consolidate facilities and programs across the Lab.

“There were several facilities that were identified as no longer cost-effective to maintain due to their age, changing missions or obsolescence,” said Mo Bissani, deputy Space Action Team (SAT) team leader.

The award citation from EPA reads: “The Space Action Team at LLNL has recycled approximately 90 percent of materials from decontaminated and demolition projects at the Lab. Soil asphalt, concrete, wood, steel and electro-mechanical infrastructure and equip-

ment have been recycled during the demolition of 11 buildings and 22 trailers. Soil, asphalt and concrete are now being used at landfill sites for construction, road improvements and daily operational needs. LLNL has reduced landfill costs for those materials to zero. Pollution prevention is a guiding principle in all decontamination and demolition projects.”

The Space Action Team (SAT), headed by Program Leader Mitch Waterman, plans and executes facilities projects. The 32-member team’s capabilities and expertise include hazardous waste management, Environment Safety and Health (ES&H) technicians and crafts teamed with other ES&H professionals.

“I was honored to receive this award on behalf of SAT and each and every member of the team. This could not have been achieved without their effort,” said Waterman. “SAT has always believed that economic decontamination and demolition is real and that pollution prevention is clearly a cost saving process. Safety has also been a top priority. In our six years of operation, we have not had a lost work-day or injury.”

“The SAT’s primary purpose is to work in partnership with its customers,” says Bissani. “We’ve become very efficient in what we’ve

been able to recycle out of these decommissioning and demolition projects.”

As buildings age beyond their “extended life cycle,” the Laboratory is dealing with the disposition of surplus facilities. This effort is hampered by a lack of historical data such as plan drawings, building modification and spill report documents.

“This is a very elaborate process requiring a lot of testing, sampling and characterization,” says Bissani, noting that it is the SAT’s task to manage the “end of life cycle” disposition process which consists of the five D’s “deactivation, decontamination, decommissioning, disposition and demolition.”

Kent Wilson, LLNL Pollution Prevention coordinator, said the approach the SAT has developed demonstrates that “pollution prevention not only improves the environment and protects natural resources, but it also makes good business sense in decontamination and demolition.”

Wilson said the Lab’s pollution prevention program in the Environmental Protection Department also received a certificate of appreciation for co-chairing the Federal Facilities Environmental Roundtable which is held twice a year at host facilities around the Bay Area.



Owl’s well at Earth Expo

Despite the inclement weather, Lab employees flocked to the annual Earth Expo celebration on the employee store lawn. They were treated to live music, LLESA group food booths and over 40 exhibits from Lab and community environment-related organizations. Among the exhibitors were (clockwise from left) the Lindsey Wildlife Museum who brought along a live barn owl and pocket gopher, Zone 7 Water Agency, Willy Moss and “Fun With Science,” and Blair Barnett with hybrid car.



MARCIA JOHNSON/TID





CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1989 - Colt Vista Wagon, seats 7, 119K miles, some body dents. \$1600. 925-447-5208

1992 - Sedan Deville; 4-door, White ext. w/Lt Grey Leather int.; Fully-Loaded; Excellent Condition. \$6,500. 925-679-2680

1993 - Acura Legend 4DRL, Auto, Ivory Leather, Green Exterior, Looks like new. \$14K or BO 925-449-5078

1994 - Geo Tracker, magenta with white conv. top. Good condition, very good gas mileage, 135k miles. All service records. \$3500 925-679-9307

1956 - Chev 150, 2 Door Sedan, yellow, new 355, power steering, 4 speed, 9 inch ford rearend, new interior & tires, centerline wheels, \$15,000 firm. 209-239-1770

1977 - Corvette L82, 4-Speed, ONLY 47K miles, All options, original. \$14,750 obo Tom 925-833-6076

1970 - Olds Cutlas Supreme, 59K original miles. New brakes and battery. Appraised at Kassabian Motors in top 5%. 350/310 hp V8/auto. Excel Cond!! \$6400 925-833-6076

1996 - Mazda Protege, 5 spd., A/C, good cond., 73k mi., \$6500, great commuter or student car 925-454-8486

1993 - Ford Mustang LX HB, V4, 5 speed, green 94K miles, A/C, AM/FM/cassette, power accessories, CC, original owner, good condition, \$3,500/OBO. 925-373-0314

1995 - Plymouth Gr Voyager LE. Loaded. Great condidtion. \$5750 925-829-8974

1987 - Camero, 86,630 orig miles, recently smogged, new trans/clutch, CD w/amp, perf exhaust \$3500/BO 925-373-0247

1985 - Mercedes 300D, ivory, good condition. 113K miles. \$2000 obo 209-473-7764

AUTOMOBILE ACCESSORIES

Set of 4 five spoke unilug mags, 14 X 7, excellent condition with good tires. \$550.00 Firm 209-571-3432

12 bolt rearend out of 56 Chey, set-up for leaf springs. \$75.00 209-239-1770

Tires - P185/65R14, Firestone FR680, Off new Honda Civic, only 5000 miles. All four only \$100. Tom 925-833-6076

Automobile ramps, 6500 lb. capacity, very good condition, great for changing oil. \$15 925-443-1279

Aluminum Camper Shell, Fits 87 Toyota Std. Bed, Smoke Gray,Tinted Windows. \$69.00 925-449-8567

BICYCLES

Mens mountain bike, new tires, excellent condition \$125 925-736-7799

Bicycle travel case, tough plastic with lock and wheels. Only used twice, will sell for a fraction of orig. cost. 925-373-0670

Lemond Chambrey 2000, 55 cm, SPOX spinergy wheels, Full Ultegra, 19 lbs, ridden 1,000 miles. Mechanically perfect. \$1300. 510-583-0933

BOATS

Catamaran, 1998 unique modern sailing catamaran combined with convenience of a power runabout. Trailerable. Raising centerboard & rudders. \$20,000. 530-876-8053

1987 Seaswirl 21 ft Cutty-cab, full bimini & delta canvas 350 V8, 260hp, omc cobra o/d, shp-shr rdo, fsh/dpth fndr, dual axle trailer \$7900obo 925-516-2174

1992 Glasstream SE 18ft open bow, Merc 175 hp IO, garaged, rarely used, excellant condition. \$8900.00 209-847-4759 209-847-4759

CAMERAS

Mint Mamiya RB67 medium format camera, 90mm lens, 120 back, polorioid back, and Bogan tripod. \$1400.00 209-823-8822

ELECTRONIC EQUIPMENT

Macintosh 636CD Performa computer, complete with b/w StyleWriter printer and extra CD s. \$110/offer 925-606-6515

HiEnd home theater system \$400; N64 game system+games \$250; Pair hifi speakers \$50; 100s cassette tapes, make offer 925-736-7799

Stereo Speakers. Linear Phase Studio models, 125 watts rms with 3 drivers, tuned port. \$100 or b/o for the pair. 925-443-2245

TV, Magnovox 25 inch console with oak cabinet. Ex. cond, hardly used, looks like new. \$100 925-443-8585

Computer Games, Command & Conquer Series, Swat 3, several games included, brand new w/ manuals, \$20 ea. 925-443-7817

Playstation game unit, works great. Plus four games: Die Hard Trilogy, VR Baseball, Destruction Derby, Grand Tour Racing. \$70, 209-833-3785

21 inch Viewsonic computer monitor. Make offer. 510-533-4833

Maxtor 40GB ATA-100 internal hard drive (for PC). New. \$100. 925-371-1607

GIVEAWAY

Mattress, queen size with box spring, FREE to a good home, comfortable. 925-443-8585

FREE 73 El Camino SS. Has 12 bolt rearend with new 3:73 gears, new windshield, front end, calipers & shocks. Registered. You hau!! After 4 PM Tracy 209-835-3352

HOUSEHOLD

GE Gas Cook Top (5 burner), down draft venting unit and large GE Electric oven. All brand new and still in the box - never used! \$1400. for all. 209-571-3432

Modern solid walnut desk (\$125), Sony 17in TV (\$100), Electrostatic room airpurifier, relief for allergy sufferers \$95 925-736-7799

Refrigerator/freezer. Side-by-side. Ice maker. Off-white. Good condition. \$135 925-443-5213

Interior & Exterior quality painting. Excellent workmanship. Low prices. Call after 6pm. or Iv a message. 510-537-7222

PINE Computer Amoire Whitewashed, excellent condition \$250.00 O.B.O. PINE Rolltop Desk, Small w/honey maple finish, Good Condition \$100.00 O.B.O 925-443-1571

Student desk, teak finish, 23in.d x 41in w x 29in.h, 3 drawers, vg condition, glass top, \$50. 925-443-1279

Tax refund burning a hole in your pocket? Purchase two Pulaski ww-oak lighted curios 26Wx80Hx12D. Your price \$400 each or \$700 for both. 925-516-8925

Solid oak dining table with 6 chairs. \$500 209-823-8822

Computer desk, in good condition, \$35. 925-373-0314

Daybed, lovely white frame with gold tone accents,double twin,ask for Reesa,\$120.00; 925-556-9339

Furniture for Sale: Wooden bookshelves (\$40), Wooden round table (\$75), Pine dresser (\$80), Large blue/grey couch (\$550), Entertainment unit (\$40) 510-836-2920

Computer desk with hutch, cherry finish, OSullivan model 61732, 54 in. W x 24 in. D x 48 in. H, \$85. 209-832-3331

Dutalier glider rocker with cushions and glider ottoman. condition; perfect for nursery; \$150. 925-371-1167

Dining room table, 6 cane-back chairs, \$500 obo. Mirror top cofee/end tables \$100 obo. 209-473-7764

Narrow antique armoire 30x78x18 w/mirror in door. Dark wood - \$325 925-443-1547

LOST & FOUND

Found 2 keys along outside perimeter of LLNL on Greenville Road between east gate and East Avenue. Perhaps they fell from a badge holder. 925-831-1569

MISCELLANEOUS

10 inch Craftsman table saw - 14 amp, \$250.00/OBO 209-571-3432

NAPCO Commercial burglar alarm control boxes, 3 available, make offer, Motorola Mobile (analog) phone+charger \$25 925-736-7799

Used medical supplies and equipment will be sent to Red Cross clinics in Torreon,MX.Tax receipt avail. 925-447-7394

GARAGE SALE - 925 Dublin Ave, LIVERMORE, April 28, 9:00 AM - 3:00 PM. LOTS of Great Items!! No early birds please! 925-373-0751

GIANTS Tickets available for various games. Two seats per game for \$32. 925-484-0716

BAR CHAIRS - 3 oak swivel with backs. Need refinishing. \$30 all/obo 925-294-8401

Time to paint your house. Interior & Exterior. Free estimates. Top quality workmanship. Excellent references. Call after 6pm. 510-537-7222

Office desk, HON, single pedestal with file drawer, steel, tan with dark brown top, \$45 209-832-3331

Beanie Baby Bears Blow Out Sale. Have lots of duplicates. Call for the one you are looking for. Most at only \$10.00 209-234-2050

Executive desk, and corner unit computer desk. Great condition! \$125.00 takes it all. 209-892-6814

Ford 8N tractor with two-blade plow. \$2,000/BO 707-823-4459

98 DEGREES @ the Chronicle Pavilion - Floor Seats - May 6/01 ... Sec 1 Row EE \$85/ticket or best offer for all four. 925-413-3274

Luggage, 3 piece matched set with wheels, Samsonite hard side. Used once. 925-447-4999

Century bassinet, \$25. Medela motorized breast pump with carrying case, \$100. 209-473-7764

MOTORCYCLES

1999 - Black Honda Super Hawk 8700 miles, great condition, alarm. \$6900 925-980-1075

1988 - BMW K100LT, only 11K miles, tobacco brown/beige seat, all bags, garaged and covered, new Metzlers, \$6,250. 925-846-1459

MUSIC INSTRUMENTS

Lab Dance Band (Swing Band) needs musicians; trumpet, trombone, sax players. Wed. night rehearsals, South Cafeteria. 925-443-2245

PETS & SUPPLIES

Fish tank & accessories, pump. lights, perfect & great for kids \$25 or BO 925-736-7799

Lost Female Border collie/Aus.Shep mix,blk head/back; dapple white/blk around neck/chest/feet/cntr face.Greenville/Tesla area. 925-443-4943

Need large dog crate for obedience training. Should be able to fit a large lab. Willing to pay reasonable price. 209-599-1564

Alfalfa for horses \$8.50/bale. 925-443-1547

Registered Quarter Horse, gelding 16 years old, well trained, used in shows, goes English and Western, jumps. \$2,300. 925-447-0343

Free Small dog, cream color, very good with kids, animals, people. Very happy animal. 209-530-9422

Cocker Spaniel - blonde, beautiful & loving. Moving and cannot take with. Ideal for active family with children. Free to loving home. 209-477-5879

RECREATION EQUIPMENT

Golf clubs set&bag \$45, Legos set for kids, many pieces and board \$45 925-736-7799

Golf clubs and bag \$50, 2 Prince Pro tennis rackets \$20 each, weight bench with weights \$25. 209-835-8791

Portable air tank 12 gallon with 25 foot hose, plus various nozzles. \$25/offer 209-576-0299

Roller Blades - Womens size 8 1/2; good condition. For Sale: \$20.00 925-240-0678

Motorhome, 1982, 25 ft Class A Titan. 90K well maintained miles. Original owner. New radiator. Runs well, forced to sell. \$8900 OBO. 925-846-2119

RIDESHARING

Express your commute, call 2-

RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

Modesto - Space available on 14 passenger luxury vanpool, 8-4:30 schedule, \$110/month. 209-521-9047, ext. 2-5177

Turlock - WANTED: Vanpool or ride share from Turlock/Patterson area. 8:00-4:45 Contact me if you have an open seat. 209-602-5168, ext. 2-9505

SERVICES

TUTORING in high school and college chemistry and math. 925-443-2095

TRUCKS & TRAILERS

1986 - Toyota 4 wd pickup. 5 speed, ac, new clutch, camper shell, rack, bed liner. 117K miles. Well maintained and very good condition.\$4250/ offer 209-368-4286

1994 - Jeep Wrangler hdtip; excellent condition; low mileage (53K); new tires; roll bar w/audio speaker; \$11K 925-932-7510

1987 - S-10 pickup, 2.8L,at,ac, shell, runs great, 260k highway mi, \$2100 b/o 209-786-2245

1987 - 22Ft. Motorhome Class C, Ford 460cc, AC, PS, PB, CD Stereo FULLY Self contained. 70k miles Solar Panels, tub/shower, oven/range. Very clean. \$9,500 408-499-3312

1996 - Dream Machine 1996 Holiday Rambler Endeavor LE,230 cummins engine,38ft.long,super slide out, basement model,18000 miles,call after 6:00 pm. 209-234-3188

1988 - 4X4 F-150 Lariat, 351 V-8 engine, automatic trans, limited slip differential, trailer package, camper shell, power windows and locks. \$2950 925-778-7390

1992 - Chevy Silverado 1500 2WD, 5.7 V8, AT, PW, PDL, PS, CC, tow package, new tires, new factory transmission, excellent condition, 98K miles. \$10,200 OBO 925-443-7544

1996 - Damon UltraSport 28ft Motorhome. Too many extras to list here. See RV in Lab parking lot A-8 (B.181). 33K miles. \$32,500 obo. 209-835-4969

1996 - Dodge Ram 1500 extended cab 4x4, Silver, 60k miles, elec-window,seat,locks, ac,shell,liner. \$16k,excellent condition 209-833-9561

1991 - Dodge 250 4X4 Diesel pickup. A/T, AC, PS, PB, tool box, rail guards, bed mat, 96,000 miles. Excellent condition. \$13,000 firm. 209-836-1706

1991 - WANTED: Camper shell to fit 1991 Toyota standard size pickup. 510-581-4609

1995 - 19FT Wilderness Travel Trailer, Very Good Condition. A/C, M/W, Heater, Refrig, Stove, Awning. Must sell. \$7,600 OBO 707-570-2775

1983 - K5 GMC Blazer 6.2 Liter PW,PL,Tilt,Cruise, AC,AM/FM/Cassett Player,KC Lights,Roof Rack. Paint about 3yrs old. Looks and runs great. \$4000 or B.O. 925-373-8360

1984 - 84 Heritage Motor Home (31ft), low mileage 46K, new carpeting, shower, microwave, great buy--Estate Sale, \$20,000 or best offer 510-538-7770

for 2001 in a ceremony Tuesday.

Edward Teller Fellowships are tailored to individual recipients in the spirit of the MacArthur Awards. The award is structured to allow recipients the opportunity to do self-directed work for the Laboratory over the next year. This is the second year the fellowships have been awarded.

“As a reward for your effort, you can now do work by yourself without anyone’s help,” Teller quipped at the conclusion of a luncheon hosted by Director Bruce Tarter and Jeff Wadsworth, deputy director for Science and Technology.

The fellowships are intended to recognize and encourage scientific accomplishments and to provide fellows the flexibility to explore new areas of interest. Awards vary per recipient and can cover partial salary, post doc assistance and travel expenses related to fellowship projects.

During the ceremony Teller listened as recipients briefly explained their fellowship plans and asked questions. He also invited each fellow to spend an hour with him discussing his or her work.

Elbert Branscomb, who served as director of the Joint Genome Institute (JGI) in Walnut Creek from its creation until late 2000, said he intended to use the fellowship to further explore genes from chromosome 19 — one of the chromosomes the Laboratory had responsibility for mapping. He said he would focus on a large family of genes involved in controlling the expression of other genes in the genome.

Under his leadership the JGI’s facilities were established and effectively completed sequencing goals, achieving international recognition. From 1996 to 1998, he was a member of the Panel of Scientific Advisors for

the National Institutes of Health-National Council of Human Genome Research Pilot Project for Large-Scale Sequencing of the Human Genome

Physicist George Kwei, a leader in neutron scattering research, said he intends to write a book on science policy in the White House that addresses how policy advisers worked with the president and Congress to set policy. “I want to explain to the general public what science does for them,” Kwei said.

Claire Max told Teller about the Laser Guide Star Project she heads and how the adaptive optics at the core of the project improves the resolution of ground-based astronomical telescopes. Recently, she has been instrumental in the creation of the newly formed Center for Adaptive Optics headquartered at the University of California, Santa Cruz.

This Fellowship award will enable Max to devote her effort to a program of intensive cutting edge exploration in adaptive optics and its emerging applications, to continue mentoring the young researchers supporting her efforts, and to define a strong role for the Laboratory within the Center and related communities.

John Nitao said he intends to write a book on subsurface flow and transport for environmental remediation. The book, a collaboration with renowned hydrologist Jacob Bear, will include information on thermal methods for removing contaminants from soil. Nitao is the driving force behind the NUFT code — a versatile computational tool that incorporates the complex physics of multiphase flow and transport of gas, liquids and thermal energy through a fractured porous matrix.

Recently, he has added realistic chemical reactions to NUFT, further expanding the class of problems to which the code can be applied.

He has been the technical core of two recent Laboratory Directed Research and Development Strategic Initiatives, and his work has provided substantive support to most of the major programs in Earth Sciences-based activities including CO2 sequestration, Yucca Mountain and the Nevada Test Site groundwater programs.

Noting that this year’s recipients reflect the breadth and depth of scientific talent at the Laboratory, Wadsworth said. “The scientific enterprise and initiatives demonstrated by the accomplishments of the fellows are a hallmark of this Laboratory and very much in the pioneering spirit of the fellowship’s namesake, Edward Teller.”



Flip the switch

With the current power shortages in California, please turn your computers and other electronic equipment off when you leave your work area.

Not only does this save power, it is also an excellent computer security measure. One should never leave a computer powered up and unattended for long periods of time.

See complete classified ad listings at <https://www-ais.llnl.gov/newsline/ads/>

CLASSIFIED ADS



1993 - Chevy 3/4T 4x4
136000mi,350,5sp,Loaded,green
,good condition \$9500.00 925-454-1749

1952 - Ford Pick-Up Parts - hood, fenders, speedometer, et al. Total estimate @ \$7,000. Will take biggest offer or will sell piece parts. 209-835-5475

1991 - Ford F150 4x4, PW, PB, PD, CD, CB, AT, AC. Bedliner, runs good, needs minor work, must sell! \$7000 OBO. 925-373-1534

1976 - Ford F-250 extended cab. Runs good \$1200.00 or B/O. 209-577-5805

1978 - GMC, 35-value one-ton step van, 21 feet with inside shelving. \$3,000 925-462-7726

1994 - GEO, Tracker,4X4,auto-matic,towable,power steering,power brakes,air cond,removable hard top,keyless entry,great mileage,66,000 miles,\$5295. 209-836-0611

1990 - NISSAN SE-V6 extended cab pickup: 5 sp, cruise,ac,am/fm/cas, Brahma camper shell, bedliner, new breaks, runs great,90k mi.,ORIG OWNER \$5000 925-983-0138

1984 - Jeep J-10 4X4 pickup, 110,000 miles, \$2900. 925-447-8804

1995 - Chevy Tahoe LS 4dr 4x4 Emerald Green, tow package, grill/hood/headlight shields, running boards, skid plates, CD, 88K mi, \$17850 925-372-0365

1994 - Weekender cabover camper model 1010 extended

queenbed A/C Awning extention mirrors extended towbar included great shape \$8750 925-447-4797

1985 - GMC Work Van runs good, new transmission, good tires. 2k obo 925-640-2966

VACATION RENTALS

MAUI, WAILEA EKAHI, 1 Bdrm, 2 Bath condo, avail.: 5/ 24 - 6/1 and 6/8-7/3. 510-582-9262

Maui, HI - Kahana Reef ocean-front 1BR/1BA condominium. Beautiful two-island view, ocean-side pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, all amenities, Homeowners park w/Lake, tennis etc., SPRING RATES! Reserve Now for Summer! 209-599-4644

Twain Harte - Fully furnished. 2bdr 2full bath. Washer,dryer, microwave, Cable TV,VCR,and more.Close to Pinecrest Lake.\$150wknd \$300wk. 925-443-2808

Maui oceanfront condo, ocean view, beautiful white sandy beach, pools, tennis, snorkeling, whale watching. Low LLNL rates. 925-846-1459

WANTED

WANTED: 49 - 57 Dodge Power Wagon pickup. Newer models also considered. 925-846-0645

Wanted. Violin shoulder rest. Play-On-Air model. 925-455-4970

Economy car 150000 or less miles good condition. 928-455-9342

Camper, for full size truck. Should be self contained and less than 1800 pounds. Will consider a fixer-upper. 925-447-5194

VCR, working with at least 66 channels. Remote control desirable. Older model O.K. Will make offer, up to \$20.00 925-443-7729

Wanted, person to do quality housecleaning once every other week. 925-443-1714

Tickets for Athletics vs. Texas Rangers for June 22th, 23rd or 24th 2001. 925-447-5455

Runners needed for coed running club/team located in east bay area. Club focus is competition with a good balance of social activities. 925-449-8341

84 Honda civic automatic, running or not, I have spare engine. 209-531-1527

Recumbant exercise bike \$150. 925-443-3102

Baby crib in good condition. 925-961-9711

Costume or junk jewelry(no plastic please) wanted for craft projects. Need not be in wearable condition....single earrings always welcome. 925-462-1548

I started my Swedish massage session in school and I need bodies to practice on in the

TriValley area. Appointments fill fast. 510-791-8623

Golf Cart, gas, running or not.Reasonably Priced. 925-373-1089

wanted, BMW motorcycle R75 or R90 any condition. 209-832-5506

1955-1959 Chevy-GMC NAPCO 1/2T pickup or 1949-1957 Dodge Power Wagon 925-846-0645

Yellow jacket GENERIC formula for the attractant !! 925-735-

6002

Wanted 45 RPM records (and some LPs) in good condition, mainly 50s and 60s. 925-454-9291

Jeep or Toyota Landcruiser in good running condition. 209-952-5305

Help needed with summer child-care in Oakland. Two kids, two months (June July), two days a week. Needs own car. 510-530-8368

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, Newsline cannot run ads that are submitted in all capital letters. “Personals” ads are not permitted either.

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>



THE BACK PAGE

ISSM

Continued from page 1

ing principles and functions, drivers for implementation, and what will be asked of employees. It will include a memorandum from Gen. Gordon to all NNSA contractor employees explaining the importance of ISSM. Also, resources for further information will be provided such as directorate ISSM points of contact and Websites to help answer questions. Feedback mechanisms will be explained so employees can voice concerns and offer ideas.

My expectation is that our ISSM will integrate security into work activities in a cost effective and value-added way. It will help

define expectations as needed for our work and provide better tools to aid us all in meeting those expectations.

I believe, through ISSM, the Laboratory will be able to fulfill its national security mission while protecting its information and materials. This is an expectation of our stakeholders and customers, specifically Congress, the Department of Energy and the University of California.

ISSM, like Integrated Safety Management (ISM), will operate on a series of functions specified by NNSA to ensure work is done securely. ISSM focuses on improving existing systems and expanding individual awareness. The ISSM focus is on ownership of security issues through appropriate knowledge, skills

and abilities. Detailed procedures based on the five ISSM functions will not be required at the activity level.

Managers and supervisors are responsible under ISSM for ensuring employees understand institutional security expectations and that security is appropriately integrated into their work. At the same time, each of us must understand what needs to be protected and why, and where we can turn to ask questions and obtain answers when we are unsure.

I am asking for every employee's continuous support and commitment to building greater security into our scientific endeavors. This will enhance the overall effort of our national security mission and maintain the confidence of our stakeholders.

W80

Continued from page 1

stockpile.

"This agreement is an important step for NNSA toward making optimal use of the capabilities of all three laboratories in supporting the national stockpile," said Michael Anastasio, AD for Defense and Nuclear Technologies. "It will be a challenging assignment for Livermore. We are relying on close cooperation with Los Alamos during the current transition period and later through their peer review of the life extension design."

The agreement signed by Directors Bruce Tarter, John Browne of Los Alamos and Paul Robinson of Sandia calls for "timely sharing of knowledge sufficient to accomplish W80 refurbishment, protocols for exchanging design information" and "full communication of significant finding investigations and surveillance data among the three laboratories."

Inter-laboratory peer review will remain an important element of confidence and DOE management, with LLNL continuing to serve as the peer review lab for certification issues related to the W80 Mods 0 and 1 and Los Alamos serving as peer review for development and certification issues related to the refurbished W80 Mods 2 and 3.

Charles McMillan of B Division will lead the Laboratory's W80 Life Extension program, which is

scheduled to provide the "first production" unit of the refurbished warhead in early 2006. The five-year effort will involve a core group of about 30 Lab scientists and engineers with other skills "matrixed in" as needed.

"This is a collaborative effort that will require the labs to work closely together and will tap the scientific capabilities and unique research facilities at all three laboratories," McMillan said.

Divided into six distinct phases reflecting the original development steps of the warhead, the refurbishment program will involve experiments at Site 300's Contained Firing Facility, LLNL's High Explosives Applications Facility, the Dual Axis Radiographic Hydrodynamics Test (DARHT) facility at Los Alamos, and use of the latest Accelerated Strategic Computing Initiative (ASCI) codes.

"Simulation is an important part of this project," McMillan said. "As codes come to maturity, ASCI's already critical role in the life extension program will become even more important."

Noting that the W80 has been deployed for almost 20 years — roughly its originally anticipated duration in the stockpile — McMillan said, "the purpose of the program is to replace any components that have limited life and enhance the surety of the system."

"There are technologies and materials available today that weren't available when the W80 system was first developed," he said.

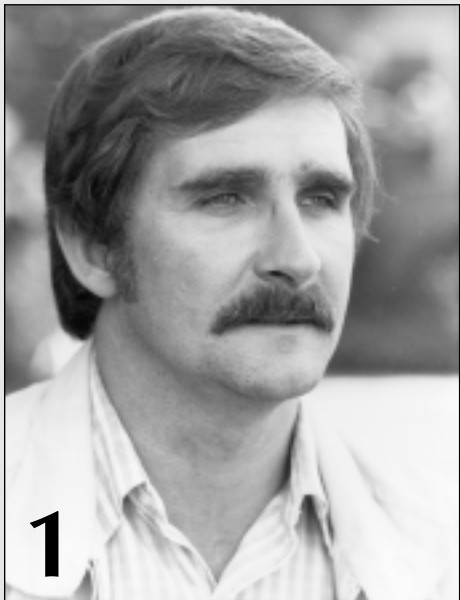
In the absence of underground nuclear explosive tests, "Life Extension" involves conducting scientific

experiments, engineering tests and computer simulations addressing all aspects of the W80 warhead performance.

The three labs will share surveillance data gathered through the DOE's Stockpile Evaluation Program, in which components of a weapon, randomly selected from a system in the stockpile, are probed and tested for potential defects resulting from aging. If a part shows signs of wear or fails to perform its function, a special investigation is conducted and a decision is made as to whether remanufacturing, perhaps with some design modification, is required. Representatives from Sandia, Los Alamos and Lawrence Livermore are now working out the details of information-sharing protocols.

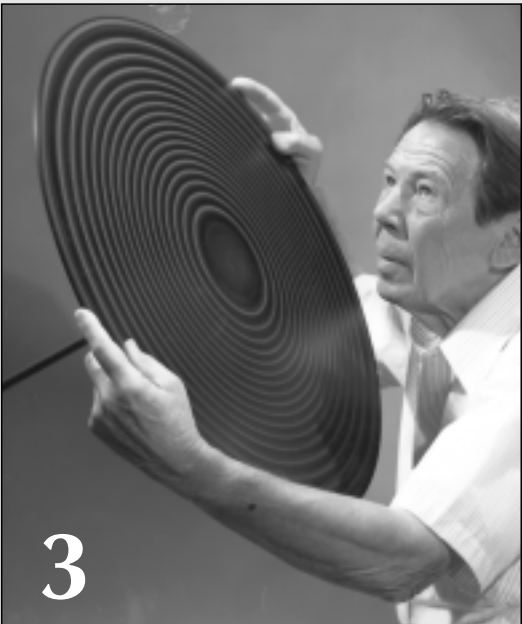
The labs are also jointly "baselining" the warhead — establishing a modern understanding of the system. "We're fortunate that some of the scientists who originally designed and developed the W80 are still around to serve as a resource," McMillan said, adding, "They're an invaluable asset to this effort." That work should be completed by the end of the year.

The "re-balance" of nuclear weapons work between Los Alamos and Livermore was part of the U.S. Senate Energy and Water Development Appropriation Bill for the year 2000. The objective of the legislation, stewarded by Sen. Pete Domenici, R-New Mexico, was to "eliminate duplication and create a more effective and efficient structure to respond to mission requirements."



Do you know who we are?

Archives is asking for help. If you know who these people are, where they worked and the years they worked at the Laboratory, please call Beverly Bull at 3-2772 or e-mail bull4@llnl.gov. (Be sure to give the date of this Newsline issue and the number of the photo.)



NEWSLINE
UC-LLNL
PO Box 808, L-797
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